

Nathan Trautenberg

Back-End Software Developer

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Summary

Former physics teacher with 6 years of experience delivering project-based learning instruction and designing (and re-designing) curriculum at the district level. Certified “Highly Effective” teacher adept at using mathematics to solve real-world problems. Under my tutelage, student growth averaged 90% per year. Uniquely positioned for success as an entry level backend developer, with experience in web application development using Rails and RESTful API. Demonstrated commitment to Test Driven Development, efficiency, and clean code practices leading to more reliable, maintainable, and efficient codebases.

Technical Skills

Languages/ frameworks: Ruby, Ruby on Rails, ActiveRecord, SQL, HTML, CSS

Testing: Test Driven Development, RSpec, WebMock, VCR

Version Control: Git, GitHub, Render, Rest APIs

Databases: PostgreSQL

Projects

Third Space | [GitHub_BE](#) | [GitHub_FE](#) | [Deployed Link](#) | 5 person team | 150 hours

Tech: RSpec | Capybara | Shoulda-Matchers | SimpleCov | Faraday | OmniAuth | 2FA | Bcrypt | Bullet | Geocoder

Tech Stack: Ruby, Ruby on Rails, HTML, JSON, security components, JavaScript, Bootstrap

- Application finds “third spaces” by mood or other criteria such as lighting, accessibility, etc. that allows neurotypical and neurodivergent people to feel more comfortable going out.

Little-Shop-7 | [GitHub](#) | 4 person team | 70 hours

Tech: RSpec | Orderly | Capybara | Shoulda-Matchers | SimpleCov | Faker | FactoryBot

Tech Stack: Ruby, Ruby on Rails, HTML, JSON

- Application simulates an etsy shop with customers, merchants, items, invoices, and discounts.

Sweater Whether | [GitHub](#) | solo | 12 hours

Tech: RSpec | Orderly | Capybara | Shoulda-Matchers | SimpleCov | Faraday | VCR

Tech Stack: Ruby, Ruby on Rails, HTML, JSON

- Provides a weather forecast at a final destination, trip time with an eta, and recommends a place to stop and eat.

Professional Experience

Physics Teacher, Rangeview High School, Aurora, CO 08|2017 - 08|2023

- Physics Team Lead responsible for writing and modifying the physics curriculum to align with changing Colorado Science Standards, as well as NGSS; collaborated with district leaders to align standards with district quarterly maps
- Emphasized project based learning and maintained rigorous standards that led to over 90% average student growth

Sales Analyst, Goldbug, Denver, CO 01|2015 - 08|2015

- Managed portfolio for Walmart’s travel accessories brand wall, saving \$1mil USD in sales
- Collaborated with production planning, warehouse, and 3PLs to make sure time-sensitive goods arrived on schedule

Research Assistant, Field Museum, Chicago, IL 07|2012 - 08|2014

- Conducted phylogenetic analysis of avian chewing lice genus Ricinus (Order: Amblycera) and Austrophilopterus (Order: Ischnocera) using DNA extraction protocols, PCR amplification, sequencing editing, and bootstrap analysis

Education

Turing School of Software and Design, Denver, CO 2023 - 2024

Accredited Certificate in Back-End Engineering

Adams State University, Alamosa, CO 2016 - 2017

Master of Arts, Education | **GPA: 4.0**

Northwestern University, Evanston, IL 2010 - 2014

Bachelor of Arts, Philosophy, Minor Portuguese | **GPA: 3.41**